UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,997	02/11/2002	Jae Hee So	98078-88003	8755

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GREENSFELDER HEMKER & GALE PC	JACOBS, LASHONDA T
SUITE 2000	

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SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

PTOL-90A (Rev. 10/06)

	Application No.	Applicant(s)
Office Action Summary	09/937,997	SO ET AL.
	Examiner	Art Unit	
	LaShonda T. Jacobs	2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>19 January 2006</u>.

2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
   closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *4-28 and 32-36* is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *4-28 and 32-36* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All b)☐ Some * c)☐ None of:

   1. ☐ Certified copies of the priority documents have been received.

   2. ☐ Certified copies of the priority documents have been received in Application No. _____.

   3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage
      application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

This is a Final Office Action in response to Applicants' Amendment/Request for

Reconsideration filed on January 19, 2006. Claims 7, 18, 27 and 28 have been amended. Claims

4-28 and 32-36 are presented for further examination.

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims **4-28** and **32-36** are rejected under 35 U.S.C. 102(e) as being anticipated by Ryu

(U.S. Pat. No. 6,377,961).

As per claim **4**, Ryu in a web page accessing system connecting a client to a specific web

page on the network, a web page accessing system, comprising:

- a <u>real name</u> database storing matched Internet Protocol (IP) addresses, Uniform

  Resource Locator (URL) information and real names on a plurality of web pages

  (abstract, col. 4, lines 8-47 and Figures 5 & 6);

- a real name server, when an access word input from the client is the real name,

  searching the real name database using the real name, finding a corresponding IP

  address and providing the IP address to the client in order for the client to access the

web page corresponding to one IP address (abstract, col. 4, lines 8-47 and Figures 5 & 6,

web search engines receives a keyword from the user. The keyword may be a real

name. The web search engine searches the indexes or references for the information on

the keyword and the results are provided to the client. The keyword is processed along

with the IP address of the client station in order to present the results that are closely

related to the client geographical location);

- an access database which stores access information including the IP address of the client

  which accesses the real name server (abstract, col. 4, lines 8-47 and Figures 5 & 6); and

- a web server which connects the client to the corresponding web page according to the

  URL information corresponding to the real name input by the client whether or not the

  IP address of the accessing client is stored in the access database, wherein the real name

  server, when another real name corresponds to the IP address corresponding to the real

  name input by the client provides the IP address of the web server to the client so that

  the client accesses the web server (col. 3, lines 42-45 and col. 4, lines 8-16).

As per claim 5, Ryu discloses:

- wherein the real name server when another real name corresponds to the IP address

  corresponding to the real name input by the client provides the IP address of the web

  server to the client and stores a first access information including the IP address of the

  client and the URL information corresponding to the real name input by the client in the

  access information database and the web server when the IP address of the accessing

  client is included in the first access information stored in the access information

  database connects the client to the corresponding web page according to the URL

information included in the first access information (abstract, col. 4, lines 8-47 and

Figures 5 & 6, web search engines receives a keyword from the user. The keyword may

be a real name. The web search engine searches the indexes or references for the

information on the keyword and the results are provided to the client. The keyword is

processed along with the IP address of the client station in order to present the results

that are closely related to the client geographical location).

As per claim **6**, Ryu discloses:

- wherein the real name server when the real name input by the client is not stored in the

  real name database provides the IP address of the web server to the client and stores a

  second access information including the IP address of the client and the real name input

  by the client in the access information database and the system further comprises a

  search engine which searches and collects various information including the real name

  on a plurality of web pages on the network by using the real name included in the

  second access information as the search word when the IP address of the client is stored

  in the second access information of the access information database (abstract, col. 4,

  lines 8-47 and Figures 5 & 6, web search engines receives a keyword from the user.

  The keyword may be a real name. The web search engine searches the indexes or

  references for the information on the keyword and the results are provided to the client.

  The keyword is processed along with the IP address of the client station in order to

  present the results that are closely related to the client geographical location).

As per claim **7**, Ryu discloses in a web page accessing system connecting a client to a

specific web page on the network, a web page accessing system, comprising:

- a real name database storing matched Uniformed Resource Locator (URL) information

  or Internet Protocol and real names on a plurality of web pages (abstract, col. 4, lines 8-

  47 and Figures 5 & 6);

- a web server when an access word input by the client is a real name searching the real

  name database and finding the corresponding URL information and when the

  corresponding URL information using the real name is not stored in the real name

  database, searching and collecting various information including the real name from the

  web pages on the network using the real name as a search word, and providing the

  information to the client, wherein the client includes a hook module when the client

  checks an access word input event and the access word input event occurs providing the

  input access word to the web server, wherein the input access word provided to the web

  server is a real name (col. 3, lines 42-45 and col. 4, lines 8-16).

As per claim **8**, Ryu further discloses:

- accessing banning database which stores English domain names on a plurality of the

  web pages to which access is to be banned and the web server when the access word

  input from the client is the English domain name and is stored in the access banning

  database bans the access to the web page corresponding to the access word (col. 4, lines

  17-29).

As per claim **9**, Ryu discloses in a web page accessing system connecting a client to a

specific web page on the network, a web page accessing system, comprising:

- a real name database storing matched Internet Protocol (IP) addresses, Uniform

  Resource Locator (URL) information and real names on a plurality of web pages;

- a web server connecting the accessed client to the corresponding web page according to the URL information stored in the real name database (col. 3, lines 42-45 and col. 4, lines 8-16); and

- a real name server when the access word input by the client is the real name providing the IP address of the web server so that the client accesses the web server, wherein the web server extracting the access word input by the real name server, searching the real name database using the real name to find the corresponding URL information and connecting the client to the corresponding web page according to the URL information, and when the corresponding URL information using the real name is not stored in the real name database, searching and collecting various information including the real name from the web pages on the network using the real name as a search word, and providing the information to the client (abstract, col. 4, lines 8-47 and Figures 5 & 6, web search engines receives a keyword from the user. The keyword may be a real name. The web search engine searches the indexes or references for the information on the keyword and the results are provided to the client. The keyword is processed along with the IP address of the client station in order to present the results that are closely related to the client geographical location).

As per claims **10**, **11** and **12**, Ryu discloses:

- wherein when the access word input by the client comprises a dot character, the access word is determined to be the English domain name and when the access word input by the client does not comprise the dot character the access word is determined to be real name (col. 4, lines 29-41).

As per claims **13**, **14** and **15**, Ryu discloses:

- wherein the real name comprises non-English languages and the English language (col. 4, lines 29-41).

As per claim **16**, Ryu discloses in a web page accessing system connecting to a client to a specific web page on the network, a web page accessing system, comprising:

- a local name server, when an access word input from the client is a non-English real name, encoding the real name into an English data format and outputting the encoded real name and when the access word is the English domain name, outputting the input English domain name without any changes (col. 4, lines 17-29).

- a real name server providing an Internet Protocol (IP) address corresponding to the real name encoded with the English data format (abstract, col. 4, lines 8-47 and Figures 5 & 6, web search engines receives a keyword from the user. The keyword may be a real name. The web search engine searches the indexes or references for the information on the keyword and the results are provided to the client. The keyword is processed along with the IP address of the client station in order to present the results that are closely related to the client geographical location); and

- an English domain name server providing the IP address corresponding to the English domain name and the local name server providing the IP address provided by the real name server or the English domain name server in order for the client to access the web page having the IP address (col. 4, lines 17-29).

As per claims **18**, **19**, **20** and **21**, Ryu discloses in a web page accessing system connecting a client to a specific web page on the network, a web page accessing system, comprising:

- a database storing matched Internet Protocol (IP) addresses <u>or</u> Uniform Resource Locator (URL) information, and real names on a plurality of web pages (abstract, col. 4, lines 8-47 and Figures 5 & 6);

- a real name server, when an access word input from the client is the real name, searching the real name database using the real name, finding a corresponding IP address, and providing the IP address to the client in order for the client to access the web page corresponding to the IP address, wherein the real name server comprises a hierarchical real name server which processes a hierarchical real name including one or more keywords and provides the corresponding IP address (abstract, col. 4, lines 8-47 and Figures 5 & 6, web search engines receives a keyword from the user. The keyword may be a real name. The web search engine searches the indexes or references for the information on the keyword and the results are provided to the client. The keyword is processed along with the IP address of the client station in order to present the results that are closely related to the client geographical location); and

- a single real name server which processes a single real name including one or more keyword and provides the corresponding IP address (, lines 8-47 and Figures 5 & 6).

As per claim **22**, Ryu discloses:

- wherein the hierarchical real name includes one or more keywords divided by the dot character (col. 4, lines 29-41).

As per claims **23** and **24**, Ryu discloses:

- wherein the case where the real name which is positioned at the rightmost or leftmost position of the keywords of the hierarchical real name is set to be an upper domain

name, the hierarchical real name server sequentially processes the real names from the

uppermost domain name and provides the IP address corresponding to the leftmost or

rightmost positioned keyword (col. 4, lines 29-41).

As per claim **25**, Ryu discloses in a method for connecting a client to a corresponding web

page using a database storing matched Internet Protocol (IP) addresses, Uniform Resource

Locator (URL) information and real names on the web pages on the network, a web page

accessing system method, comprising the steps of:

- determining whether an access word input by the client is the real name (abstract, col. 4,

   lines 8-47 and Figures 5 & 6).

- searching the database and finding the IP address corresponding to the real name when

   the access word is the real name (abstract, col. 4, lines 8-47 and Figures 5 & 6); and

- providing the IP address to the client so that the client accesses the web page

   corresponding to the IP address , wherein the method further comprises the step of

   searching and collecting various information including the real name from the web

   pages on the network using the real name as a search word, and providing the

   information to the client in the case where the real name input by the client is not stored

   in the database (abstract, col. 4, lines 8-47 and Figures 5 & 6).

As per claim **26**, Ryu further discloses:

- a step of connecting the client to the corresponding web page according to the URL

   information input by the client in the case where another real name corresponds to the

   IP address corresponding to the real name input by the client (abstract, col. 4, lines 8-47

   and Figures 5 & 6).

As per claim **27**, Ryu discloses in a method for connecting a client to a corresponding web

page using a database storing matched Uniform Resource Locator (URL) information and real

names on the web pages on the network, a web page accessing method, comprising the steps of:

- determining whether an access word input by the client is the real name (abstract, col. 4,

  lines 8-47 and Figures 5 & 6);

- searching the database and finding the URL information corresponding to the real name

  when the access word is the real name (col. 3, lines 42-45 and col. 4, lines 8-16); and

- connecting the client to the corresponding web page according to the URL information

  corresponding to the real name input by the client, wherein the method further

  comprises a step of searching and collecting various information including the real name

  from the web pages on the network using the real name as a search word, and providing

  the information to the client in the case where the real name input by the client is not

  stored in the database (col. 3, lines 42-45 and col. 4, lines 8-16).

As per claim **28**, Ryu discloses in a web page accessing method of a system comprising: a

real name database storing matched Internet Protocol (IP) or Uniform Resource Locator

(URL) information, and real names on the web pages on the network; a real name server

providing the IP address to clients; and a web server connecting the client to a specific web

page, a web page accessing method, comprising the steps of:

- the real name server providing the IP address of the web server to the client when the

  access word input by the client is the real name (abstract, col. 4, lines 8-47 and Figures 5

  & 6).

- the web server extracting the access word input to the real name server by the client when the client is accessed (abstract, col. 4, lines 8-47 and Figures 5 & 6);

- searching the real name database and finding the URL information corresponding to the real name in the case where the extracted access word is the real name (abstract, col. 4, lines 8-47 and Figures 5 & 6); and

- connecting the client to the corresponding web page according to the URL information, wherein the method further comprises a step of searching and collecting various information including the real name from the web pages on the network using the real name as a search word, and providing the information to the client in the case where the real name input by the client is not stored in the database (col. 3, lines 42-45 and col. 4, lines 8-16).

- a real name database for storing matched Internet Protocol (IP) addresses, Uniform Resource Locator (URL) information and real names on the web pages on the network; a real name server providing the IP address to clients; and a web server connecting the client to a specific web page (abstract, col. 4, lines 8-47 and Figures 5 & 6);

As per claim **32**, Ryu discloses in a method for connecting a client to a corresponding web page using a real name server and an English domain name server providing corresponding Internet Protocol (IP) addresses corresponding to the web pages on the network by processing non-English real names and English domain names, a web page accessing method, comprising the steps of:

- determining whether an access word input from the client is the non-English real name or the English domain name (col. 4, lines 17-29);

- encoding the real name with an English data format when the access word is the real name (col. 4, lines 17-29).

- providing the encoded real name to the real name server to request a corresponding IP address (col. 4, lines 17-29);

- providing the English domain name to the English domain name server to request a corresponding IP address when the access word is the English domain name (col. 4, lines 17-29); and

- providing the IP address provided by the real name server or the English domain name server to the client so that the client accesses the web page corresponding to the IP address (col. 4, lines 17-29).

As per claims **17** and **33**, Ryu discloses:

- wherein the input access word is represented as eight bits and the most significant bit (MSB) is '1', the access word is determined to the real name and wherein when the input access word is represented as eight bits and the most significant bit (MSB) is '0', the access word is determined to be the English domain name (col. 4, lines 29-41).

As per claims **34** and **35**, Ryu further discloses:

- a step of sequentially processing the keywords of the hierarchical real name from the keyword positioned at the rightmost or leftmost position and providing the IP address corresponding to the leftmost or the rightmost positioned keyword of the keywords to the client, in the case where the access word input by the client is a hierarchical real name comprising one or more keywords and the keyword is divided by a dot character (col. 4, lines 29-41).

As per claim **9**, Ryu discloses in a web page accessing system connecting a client to a specific web page on the network, a web page accessing system, comprising:

- a real name_database storing matched Internet Protocol (IP) addresses or Uniform Resource Locator (URL) information and real names on a plurality of web pages;

- a real name server when the access word input by the client is the real name, searching the real name database using the real name, finding a corresponding IP address or URL information, and providing the IP address or URL information to the client in order for the client to access the web page corresponding to the IP address or the URL information, (abstract, col. 4, lines 8-47 and Figures 5 & 6, web search engines receives a keyword from the user. The keyword may be a real name. The web search engine searches the indexes or references for the information on the keyword and the results are provided to the client. The keyword is processed along with the IP address of the client station in order to present the results that are closely related to the client geographical location); and

- a web server , when the corresponding IP address or URL information using the real name is not stored in the real name database, searching and collecting various information including the real name from the web pages on the network using the real name as a search word and providing the information to the client (col. 3, lines 42-45 and col. 4, lines 8-16).

Response to Arguments

3.   Applicant's arguments filed January 19, 2006 have been fully considered but they are not

persuasive.

The Office Notes the following arguments:

a. Ryu reference fails to teach or suggest the claim limitation of determining whether the word

from the client is a real name and providing a corresponding network address based on the real

name when the word is a real name.

b. Ryu reference does not disclose that the real name server stores an IP address of an accessing

client in the access database, and a web server connects the client to the corresponding web page

according to the URL information corresponding to the real name input by the client whether or

not the IP address of the client is stored in the access database.

In response to:

(a)-(b). Applicants argue that Ryu fails to teach or suggest the claim limitation of determining

whether the word from the client is a real name and providing a corresponding network address

based on the real name when the word is a real name nor does Ryu disclose that the real name

server stores an IP address of an accessing client in the access database, and a web server

connects the client to the corresponding web page according to the URL information

corresponding to the real name input by the client whether or not the IP address of the client is

stored in the access database. However, the Examiner disagrees. Ryu teaches a web search

server that have their own search robots that periodically circulate among various interconnected

web servers and visits various web pages that are geographically located all over the world. The

web search servers analyze the content of web pages and build indexes or references that store

relevant information about the web pages located on the various servers. The indexes include a

summary and the URL's for the web pages on the server. When a user inputs a keyword search,

the web search engine compares that word with all of its generated indexes to identify various

servers that contain information on that keyword. The network address of the server that

contains relevant information sorted in geographical order based on the user's location is

presented to the user for access to that address. The indexes hold information on all different

kinds of keyword whether a real name, therefore Ryu meets the scope of the claimed limitation

(col. 4, lines 17-29).

Conclusion

4.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing
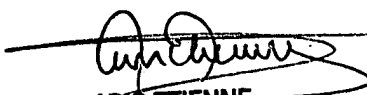
date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaShonda T. Jacobs whose telephone number is 571-272-4004. The examiner can normally be reached on 8:30 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LaShonda T Jacobs
Examiner
Art Unit 2157

ltj
March 12, 2007

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TECHNOLOGY CENTER 2100